
QMS® ImageServer™ for WIN32 Installation Guide



1810059-001A

Trademarks

The following are trademarks or registered trademarks of their respective owners. Other product names mentioned in this manual may also be trademarks or registered trademarks of their respective owners. Registered trademarks are registered in the United States Patent and Trademark Office; some trademarks may also be registered in other countries. QMS and the QMS logo are registered trademarks of QMS, Inc. ImageServer is a trademark of QMS, Inc. Intergraph/Intergraph Corp. Microsoft, Windows, Windows 95, Windows NT, MS-DOS, WIN32/Microsoft Corp.

Proprietary Statement

The digitally encoded software included with your ImageServer product is Copyrighted © 1997 by QMS, Inc. All Rights Reserved. This software may not be reproduced, modified, displayed, transferred, or copied in any form or in any manner or on any media, in whole or in part, without the express written permission of QMS, Inc.

Copyright Notice

This manual is Copyrighted © 1997 by QMS, Inc., One Magnum Pass, Mobile, AL 36618. All Rights Reserved. This manual may not be copied in whole or in part, nor transferred to any other media or language, without the express written permission of QMS, Inc.

Manual Notice

QMS, Inc. reserves the right to make changes to this manual and to the equipment described herein without notice. Considerable effort has been made to ensure that this manual is free of inaccuracies and omissions. **However, QMS, Inc. makes no warranty of any kind including, but not limited to, any implied warranties of merchantability and fitness for a particular purpose with regard to this manual.** QMS, Inc. assumes no responsibility for, or liability for, errors contained in this manual or for incidental, special, or consequential damages arising out of the furnishing of this manual, or the use of this manual in operating the equipment, or in connection with the performance of the equipment when so operated.

About this Document

This document contains the following topics:

- About the QMS ImageServer for WIN32
- Installing the ImageServer for WIN32 Software
- Requirements/Limitations/Issues
- Using the ImageServer for WIN32 Software with the ImageServer SDK 1.1 Windows Utilities
- For Additional Assistance

About the QMS ImageServer for WIN32

The QMS ImageServer for WIN32 consists of 32-bit versions of the ImageServer 1.1 Print Daemon and FastPrint Engine. The Print Daemon is contained in one executable file:

- QPDMON32.EXE

The FastPrint Engine consists of the following seven dynamic link libraries (DLL):

- QFPENG32.DLL - the main engine module
- QFPLNG01.DLL - the ASCII language module
- QFPLNG02.DLL - the RAW language module
- QFPLNG03.DLL - the QMS CCITT language module
- QFPFLT01.DLL - the TIFF to QMS CCITT filter
- QFPFLT02.DLL - the CALS to QMS CCITT filter
- QFPFLT03.DLL - the Intergraph raster to QMS CCITT filter

Installing the ImageServer for WIN32 Software

- 1 Copy the Print Daemon file QPDMON32.EXE to the \DOL subdirectory on your PC's hard disk where the QMS ImageServer SDK 1.1 was installed.
- 2 Copy the seven FastPrint Engine DLLs to the WINDOWS\SYSTEM subdirectory for Windows 95 or to the WINDOWS\SYSTEM32 subdirectory for Windows NT.

3 Using a text editor, insert the following sections into the FAST_PRT.INI file:

```
; Maps document types to language
[filters32]
ASCII=ASCII
RAW=RAW
TIFF=CCITT
CALS=CCITT
IG=CCITT

; Maps language to language module
[languages32]
ASCII=QFPLNG01.DLL
RAW=QFPLNG02.DLL
CCITT=QFPLNG03.DLL

; Specifies language capabilities
[langcaps]
ASCII=95
RAW=0
CCITT=4095

; Maps document type to filter by language
[ASCIIformats32]
[RAWformats32]
[CCITTformats32]
TIFF=QFPFLT01.DLL
CALS=QFPFLT02.DLL
IG=QFPFLT03.DLL
```

Requirements/Limitations/Issues

- 1 The 32-bit versions run only under Windows 95 or Windows NT.**
- 2 The 32-bit version of the FastPrint Engine does not work with the 16-bit version of the FastPrint Interface. This means that Documents Online can use the 32-bit components only through “scheduled mode.”**
- 3 The FastPrint Engine no longer uses Windows Sockets to communicate directly with the QMS printer. It now directs its output to Windows print queues. This means**
 - a The print queue names in the FAST_PRT.INI file are no longer used by the 32-bit engine.**
 - b The queue names shown in the FastPrint Interface are not valid for the 32-bit components.**
 - c No network status is shown in the FastPrint Engine status dialog box.**
 - d Port Monitors must be installed to enable network communication with the QMS printers.**
 - e The CPI PRINTER command must specify a Windows queue for the 32-bit components. This can be either a local queue name or an UNC printer share name.**

- 4 It is important to note that laser printers can have non-printable areas. These non-printable areas can be described through the FastPrint Configuration Manager. Check your printer documentation for specifications on non-printable areas.

Using the ImageServer for WIN32 Software with the ImageServer SDK 1.1 Windows Utilities

The QMS ImageServer for WIN32 was not originally intended to be used with the QMS ImageServer SDK* 1.1 Windows Utilities. However, Documents Online, the sample application provided with the ImageServer SDK 1.1 Utilities, can be used to generate QMS CPI files for use with the WIN32 components. The WIN32 FastPrint Engine (QFPENG32.DLL) was intended to be called by imaging applications that generate their own QMS CPI files. The WIN32 Print Daemon (QPDMON32.EXE) was provided essentially as a test application for the engine, although it can certainly be exploited in other ways. Beyond its role as a test application, the WIN32 Print Daemon can be used to implement scheduled and remote printing from the ImageServer SDK 1.1 Windows Utilities.

The primary issue concerning the use of the WIN32 components with the ImageServer SDK 1.1 Utilities has to do with print queues.

In ImageServer SDK 1.1, the print queues are defined in the FAST_PRT.INI file. The [printers] section defines the queues in the form: QueueName=DeviceName,PortName. For example,

```
[printers]
The QMS 2425 In My Office=QMS 2425 Print System,LPT1:
.
.
.
```

The DeviceName sections define properties of the devices. For example,

```
[QMS 2425 Print System]
PaperSize1=Letter
.
.
.
```

*Software Developer's Kit

Using the ImageServer for WIN32 Software with the ImageServer SDK

The QueueName appears in the To target printer listbox in the Print Job Attributes dialog box accessed by the Print Options button from Documents Online. See Figure 1.

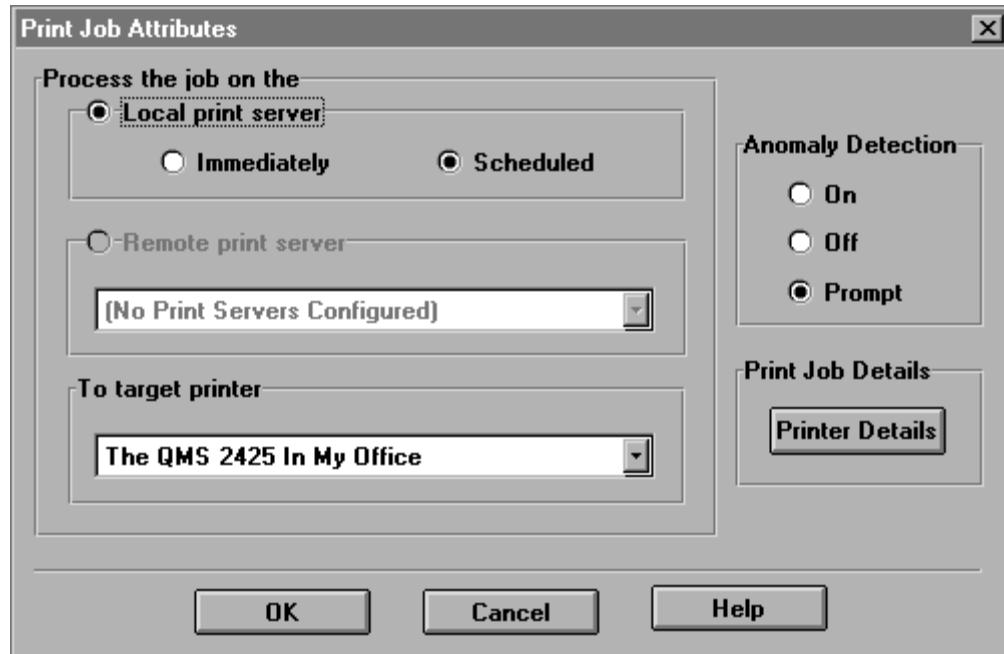


Figure 1. Print Job Attributes dialog box

The QueueName is specified in the QMS CPI file:

```
;  
; This QMS CPI file was created by  
; QMS FastPrint Interface Version 1.1.10  
;  
PRINTER The QMS 2425 In My Office  
PIN_COVER 1  
POUT_JOB 1  
# TIFF  
PSIZE Letter  
C:\DOL\SAMPLES\00000001.TIF  
C:\DOL\SAMPLES\00000002.TIF  
.  
.  
.
```

The FastPrint Interface uses the QueueName to look up the appropriate DeviceName section so that it can display applicable device options. The FastPrint Engine uses the QueueName to look up the appropriate DeviceName section so that it can look up the device commands that specify selected

device options. The FastPrint Engine also uses the QueueName to look up the PortName or destination for the job.

In ImageServer for WIN32, print queues are defined by the Windows spooler. See Figure 2.



Figure 2. Printers dialog box

The WIN32 FastPrint Engine uses the spooler's queue name when it queries the spooler for the device name so that it can look up the device commands in the FAST_PRT.INI file that specify selected device options. For the WIN32 FastPrint Engine, the spooler's queue name is the destination for the job.

Using the ImageServer for WIN32 Software with the ImageServer SDK

In order to use the WIN32 components with the ImageServer SDK 1.1 Windows Utilities, the QueueName in the FAST_PRT.INI file must be the name of a Windows spooler queue. Also, the DeviceName in the FAST_PRT.INI file must match the device specified by the spooler for that queue and must have a corresponding DeviceName section in the FAST_PRT.INI file. See Figure 3.

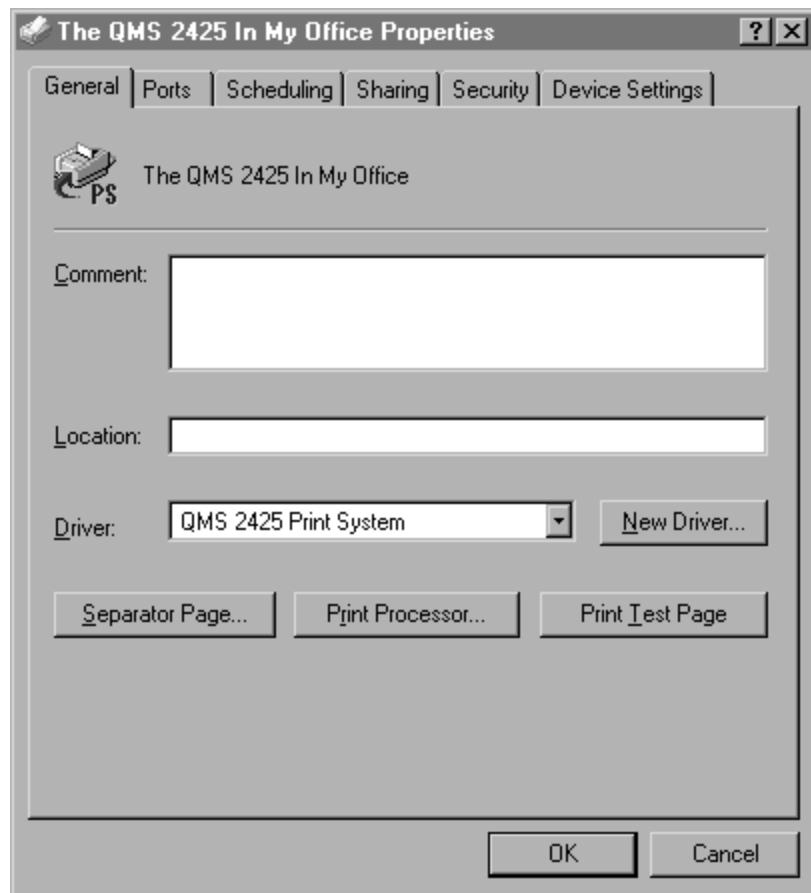


Figure 3. Properties dialog box

The FastPrint Configuration Manager can be used to set up queues in the FAST_PRT.INI file for both the ImageServer SDK 1.1 Windows Utilities and the WIN32 components through the Configure Printers dialog box. However, for the WIN32 components a Windows spooler queue name (see Figure 2) must be specified for the Printer Name and the Printer Profile must match the Driver name (see Figure 3) for the Windows spooler queue. See Figure 4.

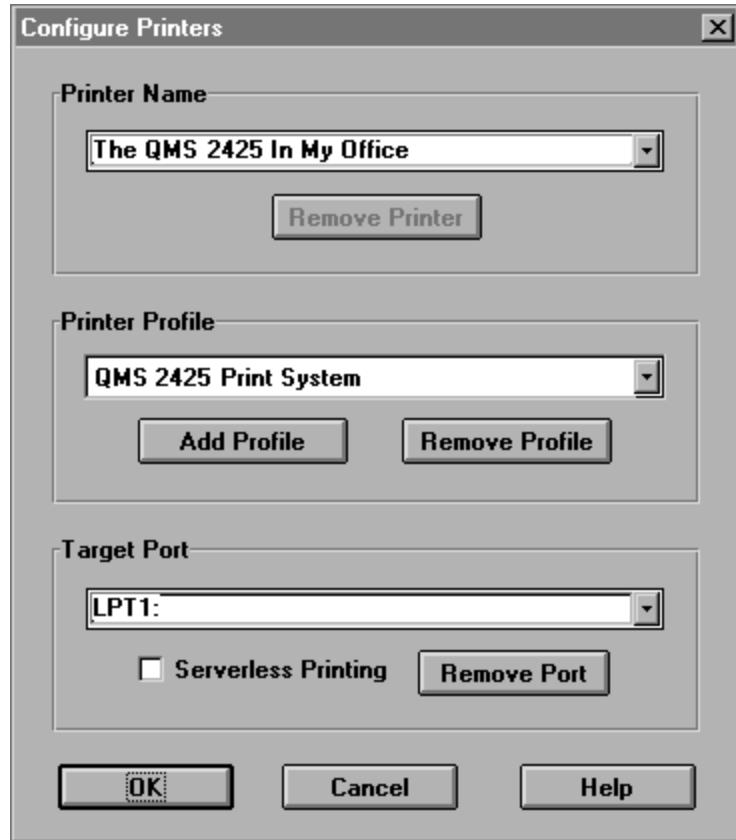


Figure 4. Configure Printers dialog box

The Target Port and Serverless Printing options are not used by the WIN32 components.

For Additional Assistance

For assistance with installing this software, refer to appendix A, “QMS Customer Support,” in your printer documentation or in the QMS ImageServer Developer’s Kit User’s Guide.

